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NOTICE OF ALLOWANCE AND FEE(S) DUE

21967

7590

02/24/2009

HUNTON & WILLIAMS LLP INTELLECTUAL PROPERTY DEPARTMENT 1900 K STREET, N.W. SUITE 1200 WASHINGTON, DC 20006-1109

EXAMINER				
NOAKES, SUZANNE MARIE				
ART UNIT	PAPER NUMBER			
1656				

DATE MAILED: 02/24/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/030,452	01/10/2002	Masayuki Yabuta	58777.000008	5707

TITLE OF INVENTION: METHODS FOR REDUCING THE FORMATION OF BY-PRODUCTS IN THE PRODUCTION OF RECOMBINANT

POLYPEPTIDES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/26/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

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CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)			Fee(s) Transmittal. The	is certif L paper	icate cannot be used t	or domestic mailings of the for any other accompanying ent or formal drawing, mus
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SUITE 1200 WASHINGTON	N, DC 20006-1109						(Depositor's name)
Wishintoror	1, DC 20000-1107						(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/030,452	01/10/2002	•	Masayuki Yabuta			58777.000008	5707
TITLE OF INVENTIO POLYPEPTIDES	N: METHODS FOR R	EDUCING THE FORM	MATION OF BY-PRODU	JCTS IN THE P	RODU	CTION OF RECOM	IBINANT
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU.	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0		\$1810	05/26/2009
EXAM	MINER	ART UNIT	CLASS-SUBCLASS				
NOAKES, SUZ	ZANNE MARIE	1656	435-071100	•			
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 		(1) the names of up to or agents OR, alternativ (2) the name of a singl registered attorney or a 2 registered patent atto	2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.				
PLEASE NOTE: Un recordation as set fort (A) NAME OF ASSI	less an assignee is ident h in 37 CFR 3.11. Comp GNEE	ified below, no assignee eletion of this form is NO	T a substitute for filing an (B) RESIDENCE: (CITY	atent. If an assign assignment. and STATE OR C	COUNT	'RY)	ocument has been filed fo
Please check the appropr	riate assignee category or	categories (will not be pr	rinted on the patent):	Individual 🖵 Co	orporati	on or other private gr	oup entity 🖵 Governmen
	are submitted: No small entity discount p # of Copies	permitted)	o. Payment of Fee(s): (Plean A check is enclosed. Payment by credit car The Director is hereby overpayment, to Depo	d. Form PTO-2038	is atta	ched.	
	ns SMALL ENTITY statu	is. See 37 CFR 1.27.	☐ b. Applicant is no long	-			
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Authorized Signature				Date			
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This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria Virginia 223	tiality is governed by 35 d application form to the ions for reducing this but /irginia 22313-1450. DC	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to th NOT SEND FEES OR	on is required to obtain or r 1.1.4. This collection is est depending upon the indive Chief Information Office COMPLETED FORMS TO	etain a benefit by t imated to take 12 r idual case. Any co er, U.S. Patent and D THIS ADDRESS	he publ minutes omment Traden S. SENI	ic which is to file (and to complete, including son the amount of the transfer, U.S. Deporto: Commissioner	d by the USPTO to process ng gathering, preparing, and me you require to complete artment of Commerce, P.O for Patents, P.O. Box 1450

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10/030,452	01/10/2002	Masayuki Yabuta	58777.000008	5707
21967 75	590 02/24/2009		EXAM	INER
HUNTON & WI	LLIAMS LLP		NOAKES, SUZ	ANNE MARIE
	PROPERTY DEPART	CMENT	ART UNIT	PAPER NUMBER
1900 K STREET, I SUITE 1200 WASHINGTON, I			1656 DATE MAILED: 02/24/200	9

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/030,452	YABUTA ET AL.	
Notice of Allowability	Examiner	Art Unit	
	SUZANNE M. NOAKES	1656	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSED in a corother appropriate commur GHTS. This application is sure and MPEP 1308.	this application. If not included ication will be mailed in due course bject to withdrawal from issue at the	
1. This communication is responsive to the After-final Amend	ments filea U7 November 200	<u>8</u> .	
2. The allowed claim(s) is/are <u>3-6,8,10,18 and 27-32</u> .			
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). 	been received. been received in Application	No	m the
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subminformal patent application (PTO-152) which give	IENT of this application. itted. Note the attached EXA	MINER'S AMENDMENT or NOTICE	
5. CORRECTED DRAWINGS (as "replacement sheets") mus	et he submitted		
(a) ☐ including changes required by the Notice of Draftspers		(PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date	•	(
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1	.84(c)) should be written on the	drawings in the front (not the back)	of
each sheet. Replacement sheet(s) should be labeled as such in t 6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATE	RIAL must be submitted. Note the	Э
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 04/20/2005 & 05/10/2002 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Sur Paper No./M 7. ☐ Examiner's A	ormal Patent Application mmary (PTO-413), lail Date mendment/Comment tatement of Reasons for Allowance	



Application No.

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REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance: The claims are drawn to methods of producing atrial natriuretic peptide (also known as atriopeptin or ANP or ANF or ANH) by culturing and growing transformed host cells containing said peptide in medium supplemented with at least 3 g/L of methionine, glycine and histidine. By supplementing the medium in this way the an unwanted by-product, e.g. a atrial natriuretic peptide which has an O-acetylserine substituted for a serine residue, is significantly reduced by 50%. The addition of "at least 3 g/L" of the requisite amino acids in the medium over comes the art of record and adding this much of said residues would not be an obvious variation to already well established mediums like yeast extract, LB-broth etc. Thus, the claims as amended are deemed both novel and non-obvious and thus claims 3-6, 8, 10, 18 and 27-32 are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Information Disclosure Statements

2. The information disclosure statements (IDS) submitted on 20 April 2005 and 10 May 2002 have been considered by the Examiner. See initialed and signed PTO-1449's. The lined through documents on the IDS from 10 May 2002 indicate that some

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of the documents have not been considered as no English translations have been provided.

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to SUZANNE M. NOAKES whose telephone number is (571)272-2924. The examiner can normally be reached on 7.00 AM-3.30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jon Weber can be reached on 571-272-0925. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/SUZANNE M. NOAKES/ Primary Examiner, Art Unit 1656 25 November 2008